## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference X16542	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, Item 5 below.
International application No.	International Illing date (day/mont	h/year) (Earliest) Phonty Date (day/month/year)
PCT/US2004/035529	16/11/2004	20/11/2003
Applicant		
ELI LILLY AND COMPANY		
This international Search Report has bee according to Article 18. A copy is being tr		urching Authority and is transmitted to the applicant u
This International Search Report consists	of a total of sh	8015.
It is also accompanied by	a copy of each prior art document o	cited in this report.
Basis of the report     a. With regard to the language, the language in which it was filed, un	international search was carried out less otherwise indicated under this it	t on the basis of the international application in the tem.
The international this Authority (Ru	search was carried out on the basis le 23.1(b)).	of a vanslation of the International application furnished to
b. With regard to any nucle	otide and/or amino acid sequence	e disclosed in the international application, see Box No. I.
2. X Certain claims were fou	ind unsearchable (See Box II).	
3. Unity of invention is lac	king (see Box III).	
4. With regard to the title,		
the text is approved as su	ibmitted by the applicant.	
the text has been established	shed by this Authority to read as follo	ows:
_		
5. With regard to the abstract,		
X the text is approved as s	, , , , , , , , , , , , , , , , , , ,	
the text has been establismay, within one month fr	thed, according to Aule 38.2(b), by to the date of meiling of this interna	this Authority as it appears in Box No. IV. The applicant tional search report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be a	published with the abstract is Figure	No
as suggested by	the applicant,	
as selected by th	is Authority, because the applicant i	ailed to suggest a ligure.
	is Authority, because this figure better	er characterizes the invemion.
b. none of the figures is to b	e published with the abstract	

Form PCT/ISA/210 (first sheet) (January 2004)

International Application No PCT/US2004/035529

A CLASS IPC 7	FICATION OF SUBJECT MATTER C070307/77 C070405/12 C070407	/10 C07D407/12	A61K31/12
According (	to International Patent Classification (IPC) or to both national classific	cation and IPC	
<del></del>	SEARCHED	**************************************	
	commentation searched (classification system followed by classifical CO7D A61K	tan symbols)	
Documenta	non searched other than minimum documentation to the extent that	such documents are included in V	ne lields searched
i	d Bisb to amen) hasses tenotismenti enti gnitub bettuznos essa sist	ase and, where practical, search to	erms used)
EPO-In	ternal, CHEM ABS Data		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Catebook .	Citation of document, with indication, where appropriate, of the re	sievaut batradec	Relevant to daim No.
A	MO 00/10958 A (LIGAND PHARMACEUT INCORPORATED) 2 March 2000 (2000 claim 1		1-29
А	BOEHM M F ET AL: "NOVEL NONSECO VITAMIN D MIMICS EXERT VDR-MODUL ACTIVITIES WITH LESS CALCIUM MOB THAN 1,25- DIHYDROXYVITAMIN D3" CHEMISTRY AND BIOLOGY, CURRENT B LONDON, GB, vol. 6, no. 5, 6 April 1999 (199 pages 265-275, XP000852987 ISSN: 1074-5521 the whole document	ATING ILIZATION IOLOGY,	1-29
		-/	
X Furo	ner documents are listed in the continuation of box C.	X Patern family members :	kenns in berall pri
<u> </u>	fedoues of grad documents .	"T" later document published after	ir the international filing data
.E. eaylet c	ont defining the general state of the landwhich is not sered to be of particular relevance tocument but published on or after the limemational		nflict with the application but liple or theory underlying the
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Date of the s	actual completion of the International search	Date of mailing of the internal	noqer nasec land
	0 April 2005	28/04/2005	
Name and m	tailing address of the ISA European Patent Office, P.B. 5818 Patentian 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 851 epo N. Fax: (+31-70) 340-3016	Wolf, C	

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International Application No PCT/US2004/035529

		101703200	)4/035529 ———————
			Relovant to claim No
	passages		
C.(Continu	Citation of document, with indication, where appropriate, of the relevant passages  NAGPAL S ET AL: "VITAMIN D ANALOGS: MECHANISM OF ACTION AND THERAPEUTIC APPLICATIONS"  CURRENT MEDICINAL CHEMISTRY, BENTHAM SCIENCE PUBLISHERS BV, BE, vol. 8, no. 13, November 2001 (2001-11), pages 1661-1679, XP009003249 ISSN: 0929-8673 the whole document		Relevant to claim No.  1-29

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International application No. PCT/US2004/035529

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 18-23 in respect of industrial applicability because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 18-23 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.:  because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be cerried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report Is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

Information on patent family members

International Application No PCT/US2004/035529

Patent document cited in search report	. ]	Publication date		Patent family member(s)	Publication date
WO 0010958	A	02-03-2000	US	6218430 B1	
			AT	253032 T	15-11-2003
			AU	756336 B2	2 09-01-2003
			AU	5485299 A	14-03-2000
			CA	2339775 AI	
			DE	69912450 DI	
			DE	69912450 T2	2 29-07-2004
			DK	1107940 T3	3 08-03-2004
			EΡ	1107940 AI	20-06-2001
			ES	2207273 T3	3 16-05-2004
			JP	2002523388 T	30-07-2002
			PT	1107940 T	31-03-2004
			wo	0010958 A1	: : :